What Is Claimed Is:

1.   1.   A method for increasing image resolution in a palm print scanner,
2.   comprising the steps of:
3.   (1)   synchronizing a nutating mirror with a camera frame sync;
4.   (2)   scanning a frame of an image at a first nutation position;
5.   (3)   positioning the nutating mirror by a fraction of a pixel amount in
6.   one direction to obtain a next nutation position;
7.   (4)   scanning the frame of another image at the next nutation position;
8.   (5)   repeating steps (3) and (4) until an image is obtained for each
9.   nutation position needed; and
10.   (6)   mapping sub-pixels from each of the images obtained in steps (2),
11.   (4), and (5) to an image of pixels having a higher resolution than the
12.   respective images of sub-pixels.

1.   2.   The method of claim 1, wherein step (6) comprises the steps of:
2.   (a)   gathering each image of sub-pixels from memory;
3.   (b)   allocating memory for the higher resolution image;
4.   (c)   mapping sub-pixels from the first nutation position image onto the
5.   higher resolution image; and
6.   (d)   interlacing sub-pixels from each of the images obtained in steps
7.   (4) and (5) onto the higher resolution image.

1.   3.   A palm print imaging system, comprising:
2.   a light emitting diode (LED);
3.   an illuminator mirror;
4.   a condenser lens;
5.   a conformable prism, wherein said LED, said illuminator mirror, and said
6.   condenser lens provide color illumination to said conformable prism to obtain an
7.   image reflected from said conformable platen;

8   a plurality of mirrors;

9   a nutating mirror, wherein said plurality of mirrors direct said image to

10   said nutating mirror;

11   a driver for controlling said nutating mirror; and

12   a camera for capturing said image,

13   wherein said camera provides signals to said driver to synchronize said

14   nutating mirror with camera frame syncs.

1   4.   The system of claim 3, wherein said conformable prism is spring loaded.

1   5.   The system of claim 3, wherein said conformable prism is used as a palm

2   platen.

1   6.   The system of claim 3, wherein said nutating mirror is repositioned to

2   obtain a plurality of images, wherein said plurality of images are used in an

3   interlacing recombining scheme to obtain a higher resolution image.

1   7.   The system of claim 3, wherein said nutating mirror is two-dimensional

2   and programmable to allow movement in two different axial directions.

1   8.   The system of claim 3, wherein said conformable prism is comprised of

2   a silicone pad.